The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 (Currently amended). A method to diagnose equipment failures using an integrated approach of case-based reasoning and reliability analysis, comprising the steps of:

maintaining a case base database for the equipment;

receiving an equipment problem description from a user;

for each component in the equipment, calculating failure probability based on at least one of historical failure data and/or and published failure data of the components;

for each component, calculating probability of matching problem description assuming that a component fails, using case based reasoning;

for each component, combining the calculated probabilities to compute an overall failure probability given said at least one of the historical failure data and data and/or published failure data, and said problem description; and

composing a list of component recommendations by ranking components ranked by their overall failure probabilities computed for each component, and retrieving corresponding past solutions from a said case base database.

2 (Currently amended). The method of claim 1, further comprising the step of producing a single list of suggested failed components based on at least one of historical failure data and/or and published failure data as observed by said user of said equipment, and said problem description received from said user.